



Test Plan Document

Version 1.0

Contents

1.	INTRODUCTION	3
2.	SCOPE OF THE TEST	4
2.1	IN SCOPE	4
2.2	Out scope	4
3.	TEST PLAN & STRATEGY	5
3.1	STRATEGY	5
3.1.1	INTEGRATION TESTING	5
3.1.2	FUNCTIONAL TESTING	5
3.1.3	REGRESSION TESTING	5
3.1.4	SMOKE TESTING	6
3.1.5	BROWSER COMPATIBILITY TESTING (Cross-browser testing)	6
3.1.6	MOBILE TESTING	6
3.1.7	PERFORMANCE TEST	6
3.1	Test Methodology	7
3.3.1	BUG TRIAGE	7
3.4	Suspension Criteria and Resumption Requirements	7
3.5	TEST COMPLETNES	7
4.	ENVIRONMENT REQUIREMENTS	7
4.1	DATA ENTRY WORKSTATIONS	7
5.	TEST SCHEDULE	8
6.	CONTROL PROCEDURES	9
6.1	REVIEWS	9
6.2	BUG REVIEW MEETINGS	9
6.3	DEFECT REPORTING	9
6.4	BUG TRIAGE	9
6.5	Suspension Criteria and Resumption Requirements	10
6.6	TEST COMPLETNES	10
7.	DELIVERABLES	10
8.	SUSPENSION / EXIT CRITERIA	11
9.	RESUMPTION CRITERIA	11
10.	PRODUCT RISK & MITIGATION PLAN	11
11.	PROJECT RISK & MITIGATION PLAN	12

1. INTRODUCTION

Translation enables effective communication between people around the world. It is a courier for the transmission of knowledge, a protector of cultural heritage, and essential to the development of a global economy. Highly skilled translators are key. Translation Studies help practitioners develop those skills.

The world has different Translations applications. A considerable number of Clients depend on these Translations applications. So, client's expectations might be changed from one to another. For example, some applications translate in limited languages.

Google company has introduced this google translation product which is specialized for different clients. Google Translate is a free statistical multilingual machine-translation service provided by Google Inc. to translate written text from one language into another. Google translator available in 109 languages.

2. SCOPE OF THE TEST

2.1 IN SCOPE

Testing of Google Translate is in the scope of this test plan. The following components and functions would be tested:

1. Entering the text or sentences it will be automatically translated into the translated language
2. Mic icon allows translating the voice
3. Listen icon successfully plays the entered word and translated word
4. Upload document file & allows translating the file

2.2 Out scope

These features are not be tested because they are not included in the software requirement specs.

1. Database logical
2. Website Security

3. TEST PLAN & STRATEGY

3.1 STRATEGY

The test strategy consists of a series of different tests that will fully exercise the Google Translation application. The primary purpose of these tests is to uncover the limitations of the system and measure its full capabilities. A list of the various planned tests and a brief explanation follow below.

3.1.1 INTEGRATION TESTING

Verification of the services that have been individually tested must be performed. This critical part of testing relies on the proper functioning of inter-service communications including error and success cases. Integration testing thus validates that the system is working together seamlessly and that the dependencies between the services are present as expected.

3.1.2 FUNCTIONAL TESTING

The objective of functional testing is to make sure that the whole software product works according to the requirements, and no significant errors appear in the application. Functional testing is the most substantial part of software testing. It involves checking different aspects of the system. A software product must pass all the planned tests. Only in this case, its quality can be assured.

3.1.3 REGRESSION TESTING

REGRESSION TESTING is defined as a type of software testing to confirm that a recent program or code change has not adversely affected existing features.

Regression Testing is nothing but a full or partial selection of already executed test cases that are re-executed to ensure existing functionalities work fine.

This testing is done to make sure that new code changes should not have side effects on the existing functionalities. It ensures that the old code still works once the latest code changes are done.

3.1.4 SMOKE TESTING

Smoke Testing is a software testing process that determines whether the deployed software build is stable or not. Smoke testing is a confirmation for the QA team to proceed with further software testing. It consists of a minimal set of tests run on each build to test software functionalities. Smoke testing is also known as "Build Verification Testing" or "Confidence Testing."

3.1.5 BROWSER COMPATIBILITY TESTING (Cross-browser testing)

Browser Testing is a process to test web applications across multiple browsers.

Cross-browser testing involves checking the compatibility of your application across multiple web browsers and ensures that your web application works correctly across different web browsers.

Testing team will use Internet Explorer / Firefox / Safari / Chrome / Edge / Opera for the cross testing.

3.1.6 MOBILE TESTING

Mobile testing is the process by which mobile apps are tested for functionality, usability, and consistency. Mobile testing can be done manually or with automation.

3.1.7 PERFORMANCE TEST

A performance test will be conducted to ensure that the Renovation Package product response time meets the user expectations and does not exceed the specified performance criteria. During these tests, response times will be measured under heavy stress and/or volume.

Test Type	Entry Criteria	Exit criteria
Functional Testing	Smoke testing should be 100%complete & defects should be not open	Functional testing 95% pass & High,Medium,Low bugs are 0.
Regression Testing	Functional Testing 100% Pass	Testing cover should be 100%

3.1 Test Methodology

Agile methodology is selected in this project, where demands and solutions evolve through the collaborative effort of self-organizing and cross-functional teams and their customers

3.3.1BUG TRIAGE

The goal of the triage is to

To define the type of resolution for each bug to prioritize bugs and determine a schedule for all 'To Be Fixed Bugs'.

3.4 Suspension Criteria and Resumption Requirements

If the team members report that there are 40% of test cases failed, suspend testing until the development team fixes all the failed cases.

3.5TEST COMPLETNESS

- specifies the criteria that denote successful completion of a test phase
- Run rate is mandatory to be 100% unless a clear reason is given.
- The pass rate is 80%, achieving the pass rate is mandatory.

4.ENVIRONMENT REQUIREMENTS

4.1 DATA ENTRY WORKSTATIONS

- Processor - 286Hz (minimum)
- RAM - 256 Mb RAM (minimum)
- Hard Drive - 40 Gb (minimum)
- OS - Windows XP or Later Version , Linux , Mac OS
- Security - Virus Guard (optional)
- A Network attached printer
- Internet accessible connection/

5.TEST SCHEDULE

Test Description	Start Time	End Time	Comment
Testing phase I	23 th May 2021 9.00a.m	11.00a.m	Information Gathering
Testing phase II	11.30a.m	12.30p.m	Test plan
Testing phase III	1.30p.m	4.30p.m	Test Case Design
Testing phase IV	5.00p.m	6.00p.m	Test Execution/Evaluation
Testing phase V	24 th May 2021 8.00a.m	10.00a.m	System Testing
Testing phase V	10.30a.m	11.30p.m	Acceptance testing
UAT Release testing	24 th May 2021	24 th May 2021	After approval from the QA Lead

6.CONTROL PROCEDURES

6.1REVIEWS

The project team will perform reviews for each Phase. (i.e. Requirements Review, Design Review, Code Review, Test Plan Review, Test Case Review and Final Test Summary Review).

6.2BUG REVIEW MEETINGS

Regular weekly meeting will be held to discuss reported defects. The development department will provide status/updates on all defects reported and the test department will provide addition defect information if needed. All member of the project team will participate.

6.3 DEFECT REPORTING

When defects are found, the testers will complete a defect report on the defect tracking system. The defect tracking Systems is accessible by testers, developers & all members of the project team. When a defect has been fixed or more information is needed, the developer will change the status of the defect to indicate the current state. When a defect is verified as fixed by the testers, the testers will close the defect report.

A Requirements Validation Matrix will “map” the test cases back to the requirements. See Deliverables.

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7. DELIVERABLES

Test deliverables are provided as below

- Test plans document.
- Test cases documents
- Test Design specifications.

During the testing

- Test Tool Simulators.
- Test Data
- Test Traceability Matrix - Error logs and execution logs.

After the testing cycles is over

- ✓ Test Results/reports
- ✓ Defect Report
- ✓ Installation/ Test procedures guidelines
- ✓ Release notes

8.SUSPENSION / EXIT CRITERIA

If any defects are found which seriously impact the test progress, the QA may choose to Suspend testing. Criteria that will justify test suspension are:

- Hardware/software is not available at the times indicated in the project schedule.
- Or you have requested some requirements from the client. But client delayed to providing requirements. And project become on hold.
- UI design contains one or more critical defects, which prevents or limits testing progress.
- Assigned test resources including team members are not available when needed by the test team.

9. RESUMPTION CRITERIA

If testing is suspended, resumption will only occur when the problem(s) that caused the suspension has been resolved. When a critical defect is the cause of the suspension, the “FIX” must be verified by the test department before testing is resumed.

10.PRODUCT RISK & MITIGATION PLAN

- 1.Need to perform functional testing to cover all functional ares.
- 2.Need to Perform regression testing to cover all the functionalities working correctly once defect fix & done.
- 3.Need to perform integration testing to verify whether the system working as expected once integrate all modules.

11.PROJECT RISK & MITIGATION PLAN

1. There should be system downtime & updates, so ask other system owners to not proceed with these types of activities during testing time.
2. Project team members & extra resources should be available to perform the relevant tasks.

-END-